

43.(New) A system as set forth in Claim 42 comprising means for illuminating the gemstone and wherein the electronic data processor means comprises light control means for controlling illumination of the gemstone by said illuminating means.

44.(New) A system as set forth in Claim 43 further comprising means for displacing the gemstone relative to said electronic camera means and wherein the electronic data processor means comprises means for controlling said electronic camera and said displacing means for capturing a profile image and a color image of the gemstone viewed by said electronic camera means.

45.(New) A system as set forth in Claim 44 comprising means for capturing multiple profile and color images of the gemstone by said electronic camera means.

46.(New) A system as set forth in Claim 43 further comprising means for capturing a fluorescence image of the gemstone with said electronic camera means.

47.(New) A system as set forth in Claim 43 further comprising means for displacing the gemstone relative to said electronic camera means and wherein the electronic data processor means comprises means for controlling said electronic camera means and said displacing means for capturing a brilliance and scintillation image of the gemstone with said electronic camera means.

48.(New) A system as set forth in Claim 47 further comprising means for capturing a girdle image of the gemstone with said electronic camera means.

49.(New) A system as set forth in Claim 47 further comprising means for capturing a table and luster image with said electronic camera means.